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GWOT and Analytic Challenges: A Joint Staff Perspective

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Operational Availability 2007 (OA-07) examined various models and methodologies in the study of the global war on terrorism

- SEAS: An agent-based model from Simulex designed to illustrate the impact of DIME actions upon the PMESII factors of various geographic regions of the world**
- STELLA: A commercial (COTS) modeling environment for using System Dynamics (SD) to study complex feedback systems**

Analysis Framework



Tools

- Svc/CCDR workgroups
- Mission Analysis
- Data
- Models
- Scenarios
- MOE's
- Wargaming
- Interagency partners
- Tank & GO/FO reviews
- Peer reviews
- Partner nations

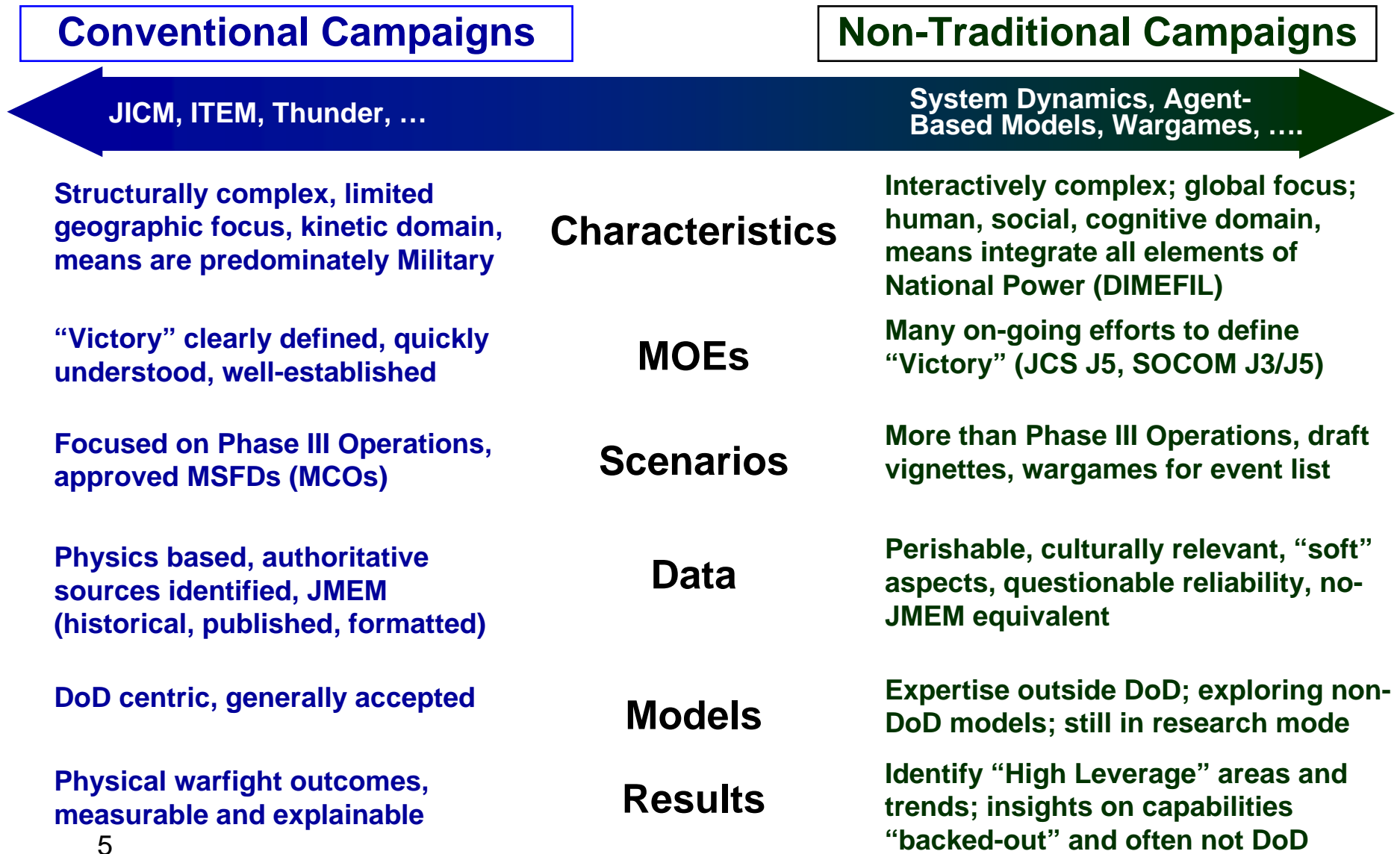
Methodologies

- Intellectual approach
- Rationale
- Physical assumptions
- Philosophical assumptions
- Tank guidance
- SPG tasks

Study Objective

- Senior Leader insights

Comparison of Traditional and Non-Traditional Analysis



Assessment of Analysis Ability



"Means"	Analysis of Conventional Campaigns	Analysis of Non-Traditional Campaigns
• Methods	●	● → ●
• Models	●	● → ●
• Data	●	●
• Scenarios	●	● → ●

Many gains still to be made in non-traditional models, data, scenarios

Way Ahead



- **Continue to use SEAS and SD**
- **Collaborate with experts from the softer sciences (e.g., cultural anthropology, political science, computational social science)**